TITLE OF INVENTION

THE GLUE TOTE

CROSS REFERENCES TO RELATED APPLICATIONS

None

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH

No federal research money was used in the development of this invention.

REFERENCE TO APPENDIX

No appendix accompanies this application

BACKGROUND OF THE INVENTION

Certain tradesman, particularly construction workers, are required to bring various materials to job sites. Sometimes the necessary equipment is in bags, bottles, rolls or cans. This device allows the worker to carry two same sized cans in a handy carrying device. This application will describe how a plumber for instance will use the device.

Most plumbers are very familiar with PVC (Polyvinyl Chloride) piping or coated PVC. It is lightweight, very durable and is very commonly used in houses and outdoor applications such as irrigation systems. However, in order to connect the PVC together the plumber must apply both a cleaner and a glue to the pipe in order to make a secure and tight fit of the pieces of PVC piping.

Without the use of the glue and the cleaner the piping becomes brittle and fails. The material that is used to clean and glue the pipe together are liquids, which are applied to the PVC to connect the piping. These materials (cleaner and glue) are

stored in cans- pint size, quart size, or even gallon or drum size. Usually a plumber carries a pint or quart size can to a job site due to convenience and ease of transport.

At times plumbers like construction workers are required to work in cramped outdoor spaces particularly in ditches when they are connecting the PVC piping. The environment is dirty and often has uneven surfaces. One of the risks in the field for the plumber is that the plumber may accidentally knock the can of cleaner or glue over. This results in waste of the product and waste of time for the plumber.

Since both the cleaner and the glue must be applied to the PVC pipe in order to make a secure fit, the plumber must carry at least two cans - one for the cleaner and one for the glue.

The purpose of this invention is to ensure that a plumber, for instance, can carry either a pint or quart size can of the glue and the same size can of cleaner to the job site at one time in a handy carrying device. The cans are securely attached on the bottom of the device in a recessed concentric circles and clamped on the top of the can lid with a recessed groove on a spring-loaded clamp. The recessed groove, which is on the underside of the clamp fits over the top of the can. A T handle on the top of the device allows the plumber to carry the device.

The typical can of glue and cleaner has an applicator in the middle of the can. The applicator is inserted into the liquid and allows the cleaner or the glue to be applied to the pipe. The

plumber removes the applicator from the respective can, applies the particular material (either cleaner or glue), and then securely puts the applicator back in the appropriate can. It is very important to prevent foreign material from entering the can with the glue or the cleaner. It is also very important that the can of cleaner or glue remain as airtight as possible. Both the presence of foreign material and air will destroy the cleaner and glue.

The bottom surface of the base of the device is a flat surface, which allows the plumber to rest the device on any surface. The downward pressure of the spring between the handle and the clamp of the device would ensure that both cans remain in place in the device.

This device may be used in any application where two cans must be carried at once. This is not particularly limited to the plumbing trade, but may also be used in other construction trades, woodworking facilities or any application where cans must be carried to a job site. The example of the plumber in this application was used solely for illustration purposes.

BRIEF SUMMARY OF THE INVENTION

This is a device, which allows two cans, either pint or quart sized to be carried at one time in a secure fashion. The bottom of the device is either aluminum or molded plastic. A spindle in the center of the device is screwed into a tapped and threaded hole in the bottom or base of the device at one end and secured at

 the other by a hex nut. The spindle is threaded at both ends to achieve that result.

Between the handle and the base of the device is a clamp, which is used to secure the pint or quart size cans to the device. On the underside of the clamp recessed grooves are provided. These grooves fit over the lip of the cans.

A spring is located between the underside of the handle and the top surface of the clamp of the device. On the point of contact with the top of the cans the clamp has a recessed or grooved lip, which allows the clamp to fit over the lip of the container. The downward pressure of the spring insures a secure fit. On the sides of the clamp are two pieces of stock, which extend perpendicular from the sides of the clamp and allow the user a convenient device to pull the clamps off the cans.

On the top surface of the base of the device are recessed rings, which are the diameter of a pint and a quart sized can.

This will ensure that the cans will not slip during normal operation as it is being clamped and helps to insure that the cans remain in place during normal use.

A "T" handle at the top of the spindle, which is secured by a hex nut, provides an easy means to carry the device.

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BRIEF DESCRIPTION OF THE DRAWINGS

This is a device to carry two cans at one time in a secure fashion. The device is depicted as shown by the following drawings:

Figure 1 is an exploded view of the invention

Figure 2 is a front view of the invention

Figure 3 is a back view of the invention

Figure 4 is a right side view of the invention

Figure 5 is a left side view of the invention

Figure 6 is a top view of the invention

Figure 7 is a bottom view of the invention

Figure 8 is an exploded view of the invention depicted from the bottom

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DETAILED DESCRIPTION

According to Figure 1 this device consists of a bottom or base section (100), a clamp (200), a spindle, which is threaded on both ends (300), a spring (400) and a T handle (500). The bottom section (100) is approximately 11 %" inches long by one-half inch thick. The bottom section has a width of approximately 4 3/8" inches. Figure 8 is an exploded view of the device and shows the recessed grooves (220) on the underside of the clamp (200).

In the center of the base section there is a tapped and threaded hole, which is approximately one-half inch in diameter (600) (Figure 1).

One end of the threaded spindle (300), is screwed into the hole (600) on the bottom section. The spindle (300) extends through a hole in the center of the clamp (200) and through a hole in the center (510) of the T handle (300). It is secured in place by a hex nut (700).

On the top of the bottom or base section (600) two recessed concentric circles (800 and 900) are formed on the top surface of the base section. These concentric circles allow a quart and pint jar to be securely positioned in the device. According to Figure 1, a pint size and quart size can have been drawn to demonstrate the placement within the recessed concentric circles.

The recessed concentric circles (800, 900) are slightly greater than the diameter of the bottom of each of the size cans so that the cans will fit securely in the respective recessed

concentric circle on the top surface of the base section of the device. The concentric circles are recessed to a depth of .187 inches for the quart size and .375 inches for the pint size can.

There are two sets of identical recessed concentric circles on each side of the base section as depicted in Figure 1 and are equally spaced from the midpoint of the base section. Figure 6 shows a pint size can in place and the recessed ring for the quart size can.

A spindle, which is secured in the hole at the bottom of the base section as depicted in Figure 1 (600) is inserted into the hole (600) which has been tapped and threaded in the center of the base section and the spindle is secured at the top by a hex nut (700). The spindle is approximately 8 ½" inches long and is threaded at both ends.

The device may be made from a variety of materials, but stainless steel is preferable because it is non-corrosive and durable. It may also be made from aluminum or molded plastic depending on the specific needs of a job.

The spindle is screwed into the hole (600)in the middle of the base section and is inserted through the hole in the center of the clamp (200) and through the hole in the center of the T handle (500). A spring (400) is inserted over the spindle and is positioned between the top surface of the clamp and the bottom surface of the T handle.

The T-shaped handle (500) is approximately 5" inches in

length. This will allow the tradesman to pick up this device with one hand.

Between the T-handle and the base section there is a clamp (200) (Figure 1). A hole in the middle of the clamp allows the spindle to pass through the center of the clamp. The hole in the middle of the clamp is approximately one-half inch in diameter. The spindle is inserted through the middle of the clamp. The clamp freely moves up and down in a vertical fashion once the device is assembled. The clamp is approximately 2 3/16 inches in length. The clamp is equipped with one inch (210) rods, which are inserted into a hole, which has been tapped and threaded on each side of the clamp. A lock nut (215) secures the rods (210) in place. These rods allow the tradesman to pull the clamp up and remove the can(s) easily. The rods (210) extend approximately one inch from the sides of the clamp and are perpendicular to the sides of the clamp.

On the bottom surface of the clamp (200) recessed groves (220) have been placed on the underside of the clamp (Figure 8). The recessed curved grooves have the following approximate dimensions: 3/16 width, 3/16 diameter with a 1-inch radius. They are approximately 1 3/8 inches apart on the underside of the clamp.

The purpose of the recessed grooves (200) is to allow this device to be clamped to the top lid of the can so that the cans are held securely in place by the downward pressure, which is

exerted by the spring (400).

Between the top of the clamp (200) and the underside of the T-handle, a compression spring (400) is placed to force the clamp on the top of the cans (Figure 1). Without this spring the cans would not remain in place.

The specifics of the compression spring are not relevant to this particular patent; however there must be sufficient downward pressure on the cans to ensure a tight and secure placement of the cans in the device.

It is contemplated that this device will be made from durable, non-corrosive materials including but not limited to stainless steel, aluminum and molded plastic.